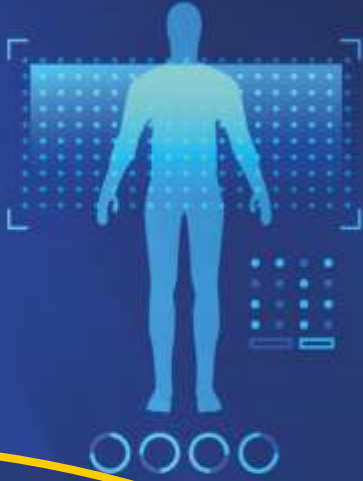


AKGUN X-Eye Covid



AKGUN X-Eye Covid Decision Support System

As is known, the COVID-19 pandemic continues to have a devastating impact on the health and well-being of the global population. Due to the rapidly increasing Covid-19 pandemic in our country and around the world, people experience various economic and social problems. Early detection of Covid-19 and reducing its speed of spread is important. Developing methods for early detection could save thousands of lives. Therefore, although the disease is not fatal for humans before it infects the lungs, there is a risk of death for every patient when it reaches the lungs. Early detection and treatment of people whose lungs are infected by Covid-19 will save their lives.

AKGUN COVID 19 DETECTION IN ARTIFICIAL INTELLIGENCE-BASED LUNG X-RAY IMAGES

AIM OF THE SYSTEM

- It is a decision support system developed for the detection of Covid-19 by radiologists and physicians using Artificial Intelligence techniques.
- To ensure early detection and response, whether the lung is viral, infected with Covid-19 or normal can be determined by analysis on Pa-lung X-Ray images.

System;

Detects relevant visual findings regarding the disease on the Pa-lung CXR images using Artificial Intelligence techniques. **Also, a strong Decision Support System Model is developed by differentiating the Pneumonia.**

ADVANTAGES OF THE SYSTEM

- Thanks to this physician process, the test waiting phase is accelerated and rapid response is possible for the patients with infected lungs.
- It has high accuracy results.
- CXR-based AKGUN X- Eye Covid Decision Support System provides high-quality and low-cost service in healthcare.
- CXR images expose patients to a lower radiation rate compared to computerized tomography (CT). The prevalence of CXR devices, their availability in every hospital, less contact with health personnel during scan and being relatively cost-effective provide great advantages in providing health care.
- As a constantly developing model, AKGUN X- Eye Covid Decision Support System is open to continuous education/learning with the additional application of interactive marking/labeling for the Radiologist and can increase the possibility of detecting the disease.

GENERAL FEATURES OF THE SYSTEM

- Using Pa-Lung, CR/CXR radiographs, a model was created to evaluate Covid-19 and possible Covid-19.
- The system **evaluates the probability of Pneumonia-Covid-19.**
- The application is open to continuing education/learning. In this context, an interactive additional marking/labeling application was developed for the Radiologist.
- Images approved as a result of marking/labeling can be used for AKGUN X-Eye Covid 19 trainings and the probability of detecting the disease will be increased.



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